

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Karabeyoglu, et al.

Serial No.: 09/505,516

Filed: February 17, 2000

For: **HIGH REGRESSION RATE  
HYBRID ROCKET  
PROPELLANTS AND  
METHOD OF SELECTING**

Examiner: E. Miller

Group Art Unit: 3641

San Francisco, CA 94111

Date: July 24, 2001

**CERTIFICATE OF FACSIMILE TRANSMISSION**

*I hereby certify that this correspondence is being faxed to Facsimile No. 703-305-7687 to the attention of Examiner Edward A. Miller, Group Art Unit 3641, at the Office of the Assistant Commissioner for Patents, Washington, D.C. 20231 on July 24, 2001.*

Signed:



*Claudia Galik*

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This is in response to the Office Action dated March 8, 2001 in the above-referenced application. Please amend the application as follows:

**IN THE CLAIMS:**

Please amend the claims as follows:

14. (Twice Amended) A method of combusting a propellant that exhibits desirable regression rate during combustion within a port having a gas stream flowing through the port, comprising the steps of:

providing a propellant having under heat transfer from the gas stream flowing through the port, a liquid layer with surface tension  $\sigma$  and liquid viscosity  $\mu$ , values that promote entrainment of droplets from said liquid layer into said gas stream flowing in said port, and said